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1 [PIROL: a case study for multidimensional separation of concerns in software engineering environments](#)

Stephan Herrmann, Mira Mezini

 October 2000 **ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**,
Volume 35 Issue 10

Full text available: pdf (441.79 KB)

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In this paper, we present our experience with applying multidimensional separation of concerns to a software engineering environment. By comparing two different designs of our system, we show the importance of separating integration issues from the implementation of the individual concerns. We present a model in which integration issues are encapsulated into rst--class connector objects and indicate how this facilitates the understandability, maintenance and evolution of the system. We identify ...

Keywords: component integration, domain—specific language, separation of concerns, software engineering environment

2 [PRIME—toward process-integrated modeling environments: 1](#)

Klaus Pohl, Klaus Weidenhaupt, Ralf Dömges, Peter Haumer, Matthias Jarke, Ralf Klamma

 October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 8 Issue 4

Full text available: pdf (1.15 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),
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Research in process-centered environments (PCEs) has focused on project management support and has neglected method guidance for the engineers performing the (software) engineering process. It has been dominated by the search for suitable process-modeling languages and enactment mechanisms. The consequences of process orientation on the computer-based engineering environments, i.e., the interactive tools used during process performance, have been studied much less. In this article, we prese ...

Keywords: PRIME, method guidance, process modeling, process-centered environments, process-integrated environments, process-sensitive tools, tool integration, tool modeling

3 [Groupware infrastructure: Clover architecture for groupware](#)

Yann Laurillau, Laurence Nigay

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**

Full text available:  [pdf\(517.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present the Clover architectural model, a new conceptual architectural model for groupware. Our model results from the combination of the layer approach of Dewan's generic architecture with the functional decomposition of the Clover design model. The Clover design model defines three classes of services that a groupware application may support, namely, production, communication and coordination services. The three classes of services can be found in each functional layer of our ...

Keywords: clover design model, conceptual software architecture

4 Web-based and Java-based simulation: VisualSLX: an open user shell for high-performance modeling and simulation

Thomas Wiedemann

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available:  [pdf\(222.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

SLX by Wolverine software is actually one of the fastest simulation languages. Besides the high performance the SLX-compiler can be extended very easily by user specific syntax rules and new basic functions. This "pyramid power" of SLX is used to build a new system for modeling and simulation --- VisualSLX. This system is a shell atop the standard SLX-compiler and the runtime system. All model and simulation data are stored in a universal database. VisualSLX could be used for a comfortable, rapi ...

5 A formal approach for designing CORBA-based applications

Alberto Coen-Porisini, Matteo Pradella, Matteo Rossi, Dino Mandrioli

April 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 12 Issue 2

Full text available:  [pdf\(478.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design of distributed applications in a CORBA-based environment can be carried out by means of an incremental approach, which starts from the specification and leads to the high-level architectural design. This article discusses a methodology to transform a formal specification written in TRIO into a high-level design document written in an extension of TRIO, named TRIO/CORBA (TC). The TC language is suited to formally describe the high-level architecture of a CORBA-based application. As a r ...

Keywords: CORBA, architectural design, control systems, formal methods, frameworks, object orientation, supervision, temporal logic

6 Interactive information retrieval systems: from user centered interface design to software design

P. Mulhem, L. Nigay



August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  [pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 B2B contract implementation using windows DNS

Ning He, Zoran Milosevic

January 2001 **Australian Computer Science Communications**, Volume 23 Issue 6

Full text available:  pdf(863.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#)
 [Publisher Site](#)

This paper describes our implementation of a support infrastructure for electronic contracting --- an important ingredient of Business-to-Business (B2B) e-commerce. The paper first explains the main benefits of the new generation of Microsoft technologies - Windows Distributed interNet Applications Architecture (DNA) and BizTalk. This is followed by a detailed description of how we take advantage of the XML tools provided by these technologies - to implement our enterprise model of contracts. We ...

Keywords: BizTalk, XML-message, business contract

8 DDD papers: Software factories: assembling applications with patterns, models, frameworks and tools

Jack Greenfield, Keith Short

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available:  pdf(707.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The confluence of component based development, model driven development and software product lines forms an approach to application development based on the concept of software factories. This approach promises greater gains in productivity and predictability than those produced by incremental improvements to the current paradigm of object orientation, which have not kept pace with innovation in platform technology. Software factories promise to make application assembly more cost effective thro ...

Keywords: design patterns, domain-specific languages, model-driven development, software factories, software product lines

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